Aviation Week

and Space Technology

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November 20, 1961

SPECIAL REPORTS:

- X-15 Program
- CL-44 Break-in

North American X-15





weight / master locknuts - A VOI-SHAN IDEA IN ACTION!



VOI-SHAN MANUFACTURING COMPANY A DEVISION OF VOCEHAN HOUSTWEE, INC.



More efficient...standardized ground control cable developed with insulation of TEFLON° 100 FEP

The constanting electrical, thermal and mechanical properties of proposed standardized configuration for ground opered cable at trival neonetten for exceeding the recurrencests of MIL-C-19777.

Skeach of the newly designed cable construction, below, shows the coverage confessation made mostble by the use of PEP as If you are concerned with the design of ground support syn-

tens, consider the various advantages offered by FEP, greatly reduced electrical cross talk, re-

Hox 600, Montreal, Quebec.



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GEPAC "100"

Compact, portable programmable comparator for automatic checkout

GENERAL SET ELECTRIC

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RCA 2N1708

World's First Silicon Switching Transistor in the miniature TO-46 Package

RCA announces the 2N1708, first and fastest silicon planar-epitaxial computer transistor in the TO-46 package

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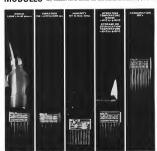
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LOW POWER ENVIRONMENTALLY PROVED . . . AVAILABLE NOW! Delco Rudso's new whose depth modules operate on less than 4 mm; of power per logic singe. They are rugged enough to without desirent environmental conditions SILICON and are small and lightweight, Excupationed in light fourny epoxy, each module weight less than 12 streets and occurred less than one-half colds such. The basic set of modules reductes a beautiful multivolution, a diade NOR mate, a power direct, a monostable multivibrator and an assable multivibrator. From these busic units larger computer substantibilities can be assembled, such to shelt registers, adders, bustry counters, decimal counters and throng devices. A range of applications-from small scale awards re-creats to large computers can be satisfied with these modules. Environmentally proved so.



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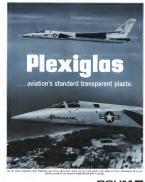


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Salute to the X-15

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Washington Roundup ---

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approach to cut costs, improve quality of weapons, By Cooks C. Wilson

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Space Vehicles Face in Re-entry



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New X-15 Windshield To Be Flight-Tested

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Critics Push IATA Organization Changes Small airlines, rebuffed at convention, ness hid for

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REPORT:

Shell reports on three new lubricants that improve aircraft operation-and two new developments that improve aircraft service









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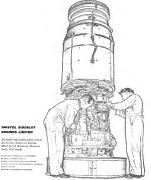
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SPACE TECHNOLOGY

X-15 Objectives Raised to New Limits

By William C David Edwards AFR, Cable-Mose than two years after the first field of the The X IS already has been marked to near its desire hours of 250,000 ft.

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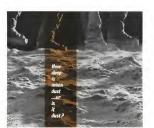
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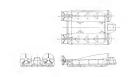
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The combat value of an arcraft currier is directly related to the strike capability of its aircraft. Navy planners, seeking to increase the combat potential of aircraft carriers, are vitally aware of the economic advantages of aircraft capable of more than one mission. The Navy's new two-mission fighter, the Phantom III, can effectively deliver huge loads of convenience of the combatter of the

Sparrow III missiles for anti-air warfare are semi-submerged in the fuselage and are carried on all missions. The Phantom II literally flies its own cover on ground attack missions because it retains full capability for air defense at any time.

Great numbers of conventional bombs, napalm or fuel tanks, or nuclear weapons are slung beneath the wings and the fuse-lage for delivery against ground targets. Simply varying the armament load of the Phantom II fits the carrier force to shifting combat situations regardless of weather, day or night.

Multi-mission weapons delivery capability is but one of the advantages of this Mach. 2+ fighter. Performance is another. The Phantom II demonstrated maneuverability, range and speed in capturing world closed course speed records for both 100 and 500 kilometers. It has reached an altitude of 98,560 feet and has a dash speed in excess of 1500 mph. The compatequipped Phantom II operates easily from existine 5000 foot runways.



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